ed per v 27 Tn d 3/49 Eng.

Index to the *Bell Telephone Magazine*

Volume XXVI, 1947

Information Department
AMERICAN TELEPHONE AND TELEGRAPH COMPANY
New York 7, N. Y.

Engineering
Library
TK
1
.B46

PRINTED IN U. S. A.

DW

Eng. Lib.
Q.97.
Amer Telephone
& Telegraph Co.

BELL TELEPHONE MAGAZINE

VOLUME XXVI, 1947

TABLE OF CONTENTS

SPRING, 1947

The Teacher, by *A. M. Sullivan* 3
A Tribute to Alexander Graham Bell, by *Walter S. Gifford* 4
Mr. Bell and Bell Laboratories, by *Oliver E. Buckley* 6
Two Men and a Piece of Wire—*and Faith* 12
The Pioneers and the First Pioneer 21
The Bell Centennial in the Press 25
Helen Keller and Dr. Bell 29
The First Twenty-Five Years, by *The Editors* 30
America Is Calling, by *William G. Thompson* 35
Preparing Histories of the Telephone Business, by *Samuel T. Cushing* 52
Preparing a History of the Telephone in Connecticut, by *Edward M. Foley, Jr.* 56
Who's Who & What's What 67

SUMMER, 1947

The Responsibility of Management in the Bell System, by *Walter S. Gifford* 70
Helping Customers Improve Telephone Usage Habits, by *Justin E. Hoy* 72
Employees Enjoy more than 70 Out-of-hour Activities, by *John G. Simmons* 81
Keeping Our Automotive Equipment Modern, by *Temple C. Smith* 90
Mark Twain and the Telephone 100
Crossed Wireless 104
Twenty-five Years Ago in the Bell Telephone Quarterly 105
Who's Who & What's What 107

AUTUMN, 1947

Distribution by Western Electric Company, by *Alvin von Auw* ... 113
How Big Are the Little Things in the Telephone Business?, by *Keith S. McHugh* ... 124
Plastics—Their Growing Use in Telephone Plant, by *John R. Townsend* ... 127
Excursion in Engineering, by *Carroll O. Bickelhaupt* ... 136
Telephones in the World of 1947, by *James R. McGowan* ... 139
"The New Bell Telephone" ... 149
Hammond V. Hayes: 1860–1947, by *Roger B. Hill and Thomas Shaw* ... 150
Twenty-five Years Ago in the Bell Telephone Quarterly ... 174

WINTER, 1947-1948

Operator Toll Dialing—the Coming Way, by *Ralph I. Mabbs* ... 181
Keeping Our Sights High, by *Keith S. McHugh* ... 191
The International Telecommunication Conference of 1947, by *Bartlett T. Miller* ... 192
Opening of New York-Boston Radio Relay System Is Historic Event ... 204
"Arms of the Law"—Police Communications, by *Richard B. Holt*. 208
Forest Fire: What an Unchecked Holocaust Wrought in Maine, by *Timothy P. Mannix* ... 221
Weather Charts by Wire for the Air Force, by *Harry Jeavons* ... 228
Twenty-five Years Ago in the Bell Telephone Quarterly ... 240
The Biggest Offer Ever, by *Frederick A. Wiseman* ... 242

BELL TELEPHONE MAGAZINE

VOLUME XXVI, 1947

INDEX

A

	Issue	Page
"America Is Calling" by William G. Thompson—9 photos, 3 maps, 2 charts	Sp	35
American Telephone and Telegraph Company:		
"The Biggest Offer Ever" by Frederick A. Wiseman—8 photos	Wi	242
"Hammond V. Hayes: 1860–1947" by Roger B. Hill and Thomas Shaw, with an introductory note by W. H. Harrison—10 photos, 3 charts	Au	150
"American Telephone and Telegraph Company Headquarters"	Wi	240
American Telephone Historical Library: "Preparing Histories of the Telephone Business" by Samuel T. Cushing	Sp	52
Annual Reports: A. T. & T.—1905. Comment on rate reductions	Au	170
"'Arms of the Law'—Police Communications" by Richard B. Holt—8 photos, 1 map	Wi	208
Automotive Authority	Au	135
Automotive Equipment: "Keeping Our Automotive Equipment Modern" by Temple C. Smith—14 photos	Su	90

B

Barrett, J. A.:		
Demonstrated advantages of paper as cable insulation, 1888	Au	157
Invented ABC system of transpositions	Au	162
Bell, Alexander Graham:		
"The Bell Centennial in the Press"—2 photos	Sp	25
"Mr. Bell and the Bell Laboratories" by Oliver E. Buckley—4 photos, 1 map	Sp	6
"Crossed Wireless"	Su	104
"Death of Dr. Bell"	Au	174
"Dr. Bell's Telephone Service"	Au	174
"From Edinburgh"	Sp	66
"Helen Keller and Dr. Bell"	Sp	29
Letter from President Truman to Mrs. Grosvenor on Bell Centennial—1 photo	Sp	2
"The Pioneers and the First Pioneer"—3 photos	Sp	21
Round the States Telephone Circuit for Bell Centennial—1 map, 1 photo	Sp	10
"The Teacher" by A. M. Sullivan—Poem	Sp	3

	Issue	Page
"A Tribute Paid to Alexander Graham Bell During the Bell Centennial" by Walter S. Gifford—2 portraits	Sp	4
"Two Men and a Piece of Wire—*and Faith*"—7 photos	Sp	12
Bell, Mrs. Alexander Graham: Letter to J. J. Carty on A. G. Bell's use of telephone service	Au	174
"Bell Centenntial in the Press, The"—2 photos	Sp	25
Bell Telephone Laboratories: "Hammond V. Hayes: 1860–1947" by Roger B. Hill and Thomas Shaw, with an introductory note by W. H. Harrison—10 photos, 3 charts	Au	150
"Mr. Bell and the Bell Laboratories" by Oliver E. Buckley —4 photos, 1 map	Sp	6
"Plastics—Their Growing Use in Telephone Plant" by John R. Townsend—6 photos	Au	127
Bell Telephone Magazine: "The First Twenty-Five Years"—4 photos	Sp	30
Bickelhaupt, Carroll O.: Biographical sketch—portrait	Au	111, 176
"Excursion in Engineering" by Carroll O. Bickelhaupt	Au	136
"The Biggest Offer Ever" by Frederick A. Wiseman—8 photos	Wi	242
Biography: Bickelhaupt, Carroll O.—portrait	Au	111, 176
Buckley, Oliver E.	Sp	67
Cushing, Samuel T.—portrait	Sp	68
Foley, Edward M., Jr.—portrait	Sp	68
Gifford, Walter S.	Sp	67
Hill, Roger B.—portrait	Au	111, 176
Holt, Richard B.—portrait	Wi	179
Hoy, Justin E.—portrait	Su	107
Jeavons, Harry—portrait	Wi	179
Mabbs, Ralph I.—portrait	Wi	178
Mannix, Timothy P.—portrait	Wi	179
McGowan, James R.—portrait	Au	176
McHugh, Keith S.—portrait	Au	110
McHugh, Keith S.—portrait	Wi	178
Miller, Bartlett T.—portrait	Wi	178
Shaw, Thomas—portrait	Au	111, 176
Simmons, John G.—portrait	Su	108
Smith, Temple C.—portrait	Su	108
Thompson, William G.—portrait	Sp	68
Townsend, John R.—portrait	Au	110
von Auw, Alvin—portrait	Au	110
Wiseman, Frederick A.—portrait	Wi	179
Blackwell, O. B.: Early telephone research	Au	173
Blair, Joan: Posing with model of first telephone—photo	Sp	28
Blauvelt, W. G.: Early telephone research	Au	167
Blood, G. T.: Early telephone research	Au	173
Blue Bell: "How Angus Hibbard Designed the Blue Bell"	Su	106

	Issue	Page
Bonds—Debenture: "The Biggest Offer Ever" by Frederick A. Wiseman—8 photos	Wi	242
Buildings: "A. T. & T. Co. Headquarters"	Wi	240
Bullard, A. M.: Early telephone research	Au	167
Buckley, Oliver E.:		
Biographical sketch	Sp	67
"Mr. Bell and the Bell Laboratories"—4 photos, 1 map	Sp	6

C

Cable Plows: "Keeping Our Automotive Equipment Modern" by Temple C. Smith—2 photos	Su	90
Cables: "Hammond V. Hayes: 1860–1947" by Roger B. Hill and Thomas Shaw, with an introductory note by W. H. Harrison—10 photos, 3 charts	Au	150
Campbell, G. A.: Research in A. T. & T. Engineering Dept.	Au	162, 166
Carty, J. J.: Early telephone research	Au	173
Helped invent common-battery system	Au	160
Letter from Mrs. A. G. Bell on Dr. Bell's use of telephone	Au	174
Charlesworth, H. P.: Early telephone service	Au	173
Central Offices: "Nation-wide Operator Toll Dialing—the Coming Way" by Ralph I. Mabbs—4 photos, 1 map	Wi	181
Charts:		
Distribution of the world's telephones, January 1, 1947	Au	141
Engineering Department, A. T. & T., January, 1905	Au	172
Headquarters technical staff, American Bell Telephone Company, Dec. 31, 1885	Au	154
Headquarters technical staff, American Bell Telephone Company, Dec. 31, 1895	Au	168
Number connecting and not connecting with Bell System, 1900–1947	Au	140
Organization of International Telecommunications Union as provided in Atlantic City Convention, 1947	Wi	193
Overseas radiotelephone messages, 1927–1946	Sp	48
Overseas radiotelephone service from the United States	Sp	36
Overseas telephone service three minute week day message rate, 1927–1946	Sp	49
Ownership of the world's telephones, January 1, 1947	Au	140
Speed of telephone answer by kind of business	Su	79
Telephone conversations and telegrams, Year 1946	Au	145
Telephone development of large cities, January 1, 1947	Au	146
Telephone development of the world, by countries, January 1, 1947	Au	142
Telephones per 100 population, January 1, 1947	Au	144
The World's telephones by continental areas, January 1, 1947	Au	141
Weather Charts by Wire for the Air Force	Wi	230, 237
Chesterman, F. J.: Early telephone research	Au	173
Coaxial Cables: "Opening of New York–Boston Radio Relay System Is Historic Event"—1 map, 2 photos	Wi	204

	Issue	Page
Colpitts, E. H.: Research in A. T. & T. Engineering Dept.	Au	162
Early telephone research	Au	173
Commercial Department: "Helping Customers Improve Telephone Usage Habits" by Justin E. Hoy—7 photos, 1 chart	Su	72
Conferences—Telecommunication:		
Excerpt from speech by Walter S. Gifford, July 12, 1947	Wi	252
"The International Telecommunication Conference of 1947" by Bartlett T. Miller—7 photos, 1 chart	Wi	192
Coy, George Willard: Invented first commercial telephone switchboard—portrait	Sp	57, 58
Craft, E. B.: Early telephone research	Au	167
"Crossed Wireless"	Su	104
Cushing, Samuel T.:		
Biographical sketch—portrait	Sp	68
"Preparing Histories of the Telephone Business" by Samuel T. Cushing	Sp	52

D

Daly, John: Group portrait	Au	163
Darling, H. E.: Early telephone research	Au	173
Davis, Joseph P.: Chief Engineer, American Bell Telephone Co., 1894–1905	Au	155
"Death of Dr. Bell"	Au	174
Debentures see **Bonds—Debenture**		
Dial Systems:		
"Machine Switching in New York City"	Wi	240
"Nation-wide Operator Toll Dialing—the Coming Way" by Ralph I. Mabbs—4 photos, 1 map	Wi	181
Directories:		
"Preparing a History of the Telephone in Connecticut" by Edward M. Foley, Jr.—8 photos	Sp	56
"Mark Twain and the Telephone"—photo	Su	100
Distributing Houses: "Distribution by Western Electric Company" by Alvin von Auw—7 photos	Au	112
"Distribution by Western Electric Company" by Alvin von Auw—7 photos	Au	113
Dittmer, A. M.: Group portrait	Au	163
Dixon, A. F.: Early telephone research	Au	167
"Dr. Bell's Telephone Service"	Au	174

E

Ellsworth, James D.: Portrait	Sp	31
Emblems: "How Angus Hibbard designed the Blue Bell"	Su	106
Emergencies:		
"Forest Fire: What an Unchecked Holocaust Wrought in Maine" by Timothy P. Mannix—9 photos	Wi	221
New Year's ice storm damages telephone plant	Wi	251
"Sleet Storms"	Su	105

	Issue	Page
Employee Morale—Recreational Facilities: "Employees Enjoy more than 70 Out-of-hour Activities" by John G. Simmons—10 photos	Su	81
Employees:		
"The Biggest Offer Ever" by Frederick A. Wiseman—8 photos	Wi	242
Excerpt from speech by Walter S. Gifford to International Telecommunication Conference, July 12, 1947	Wi	252
"How Big Are the Little Things In the Telephone Business?" by Keith S. McHugh	Au	124
"Employees Enjoy More than 70 Out-of-hour Activities" by John G. Simmons—10 photos	Su	81
Engineering: "Excursion in Engineering" by Carroll O. Bickelhaupt	Au	136
"Excursion in Engineering" by Carroll O. Bickelhaupt	Au	136
"Experimental Broadcasting Service"	Au	175
"Experimental Broadcasting Station"	Su	105

F

Facsimile: "Weather Charts by Wire For the Air Force" by Harry Jeavons—6 photos, 2 maps, 2 charts	Wi	228
Finance: "The Biggest Offer Ever" by Frederick A. Wiseman—8 photos	Wi	242
Fires: "Forest Fire: What an Unchecked Holocaust Wrought in Maine" by Timothy P. Mannix—9 photos	Wi	221
"The First Twenty-Five Years"—6 photos	Sp	30
Foley, Edward M., Jr.:		
Biographical sketch—portrait	Sp	68
"Preparing a History of the Telephone in Connecticut"—8 photos	Sp	56
Forest Fire: "What an Unchecked Holocaust Wrought in Maine" by Timothy P. Mannix—9 photos	Wi	221
"From Edinburgh"	Sp	66
Frost, Herrick P.: Connecticut telephone pioneer	Sp	57

G

Gifford, Walter S.:		
Biographical sketch	Sp	67
Excerpt from speech to International Telecommunication Conference, July 12, 1947	Wi	252
Made call opening New York-Boston radio relay system	Wi	204
"Mr. Bell and the Bell Laboratories" by Oliver E. Buckley—3 group portraits, 1 map	Sp	6
Opens overseas service to London; speaks around the world—2 portraits, 7 photos, 3 charts	Sp	37
"The Pioneers and the First Pioneer"—3 photos	Sp	21
Portrait	Sp	5
Portrait	Su	107

	Issue	Page
Presided at International Communication Conference Dinner	Wi	202
"The Responsibility of Management in the Bell System"	Su	70
Telephone Hour, March 3, 1947—group portrait	Sp	18
"A Tribute Paid to Alexander Graham Bell During the Bell Centennial" by Walter S. Gifford—2 portraits	Sp	4
Gilliland, Ezra T.: In Charge of Mechanical Dept., American Bell Telephone Company, 1884–1885	Au	155
Good Usage: "Helping Customers Improve Telephone Usage Habits" by Justin E. Hoy—7 photos, 1 chart	Su	72
Government Ownership: Charts—Ownership of the world's telephones, January 1, 1947	Au	140
Grosvenor, Mrs. Gilbert H.: Letter from President Truman paying tribute to her father, Alexander G. Bell	Sp	2

H

Hall, A. F.: Group portrait	Au	163
"Hammond V. Hayes: 1860–1947" by Roger B. Hill and Thomas Shaw, with an introductory note by W. H. Harrison—10 photos, 3 charts	Au	150
Harrell, J. E.: "The Heritage of the Pioneers"	Sp	22
Harrison, William H.: "Hammond V. Hayes: 1860–1947" by Roger B. Hill and Thomas Shaw, with an introductory note by W. H. Harrison—10 photos, 3 charts	Au	150
Hayes, Hammond V.: "Hammond V. Hayes: 1860–1947" by Roger B. Hill and Thomas Shaw, with an introductory note by W. H. Harrison—10 photos, 3 charts, portrait	Au	150
Hayward, William H.: Connecticut telephone pioneer	Sp	57
Head Sets: "Plastics—Their Growing Use in Telephone Plant" by John R. Townsend—6 photos	Au	127
Hebb, T. C.: Research on Telephone amplifier	Au	166
"Helen Keller and Dr. Bell"	Sp	29
"Helping Customers Improve Telephone Usage Habits" by Justin E. Hoy—7 photos, 1 chart	Su	72
Hibbard, Angus: "How the Blue Bell Was Designed"	Su	106
Hill, Roger B.: Biographical sketch—portrait	Au	111, 176
Hill, Roger B. and Thomas Shaw: "Hammond V. Hayes: 1860–1947" by Roger B. Hill and Thomas Shaw, with an introductory note by W. H. Harrison—10 photos, 3 charts	Au	150
History: See **Telephones—History**		
Holt, Richard B.:		
"'Arms of the Law'—Police Communications"—8 photos, 1 map	Wi	208
Biographical sketch—portrait	Wi	178
"How Big Are the Little Things In the Telephone Business?" by Keith S. McHugh	Au	124

	Issue	Page
Hoy, Justin E.:		
Biographical sketch—portrait	Su	107
"Helping Customers Improve Telephone Usage Habits"—7 photos, 1 chart	Su	72
Hoyt, R. S.: Early telephone research	Au	173
I		
"The International Telecommunication Conference of 1947" by Bartlett T. Miller—7 photos, 1 chart	Wi	192
J		
Jeavons, Harry:		
Biographical sketch—portrait	Wi	179
"Weather Charts by Wire for the Air Force"—6 photos, 4 maps	Wi	228
Jewett, F. B.: Early telephone research	Au	173
K		
"Keeping Our Automotive Equipment Modern" by Temple C. Smith—14 photos	Su	90
"Keeping Our Sights High" by Keith S. McHugh	Wi	191
Keller, Helen: "Helen Keller and Dr. Bell"	Sp	29
Kelvin, Lord: Quote on Bell's telephones at Centennial, 1876	Au	139
L		
Labor Relations: "The Responsibility of Management in the Bell System" by Walter S. Gifford	Su	70
Lacy, T. N.: "The Span of a Single Lifetime"	Sp	23
Lewis, Frederick Parker: Connecticut telephone pioneer	Sp	62
Lewis, Walter: First President of the District Telephone Company of New Haven—portrait	Sp	57, 58
Long Distance—Operator Dialing: "Nation-wide Operator Toll Dialing—the Coming Way" by Ralph I. Mabbs—4 photos, 1 map	Wi	181
Long Lines Department:		
"America Is Calling" by William G. Thompson—9 photos, 2 maps, 2 charts	Sp	35
"Nation-wide Operator Toll Dialing—the Coming Way" by Ralph I. Mabbs—4 photos, 1 map	Wi	181
"Weather Charts by Wire For the Air Force" by Harry Jeavons—6 photos, 2 maps, 2 charts	Wi	228
M		
Mabbs, Ralph I.:		
Biographical sketch—portrait	Wi	178
"Nation-wide Operator Toll Dialing—the Coming Way"—4 photos, 1 map	Wi	181
"Machine Switching in New York City"	Wi	240

	Issue	Page
Management:		
"Distribution by Western Electric Company" by Alvin von Auw—7 photos	Au	113
"How Big Are the Little Things in the Telephone Business?" by Keith S. McHugh	Au	124
"The Responsibility of Management in the Bell System" by Walter S. Gifford	Su	70
Mannix, Timothy P.:		
Biographical sketch—portrait	Wi	179
"Forest Fire: What an Unchecked Holocaust Wrought in Maine" by Timothy P. Mannix—9 photos	Wi	221
Manship, Paul: Bust of Alexander Graham Bell	Sp	6
Maps:		
Air Force Weather Map facsimile network provided by the Long Lines Department	Wi	229
Around the world circuit used by Mr. Gifford	Sp	38
The Bell System's coaxial cable and radio relay routes between Washington and Boston	Wi	205
Numbering-plan areas and their codes in the United States and Canada	Wi	188
Original copy of map prepared for facsimile transmission, and same map as received	Wi	230, 231
Overseas Radio Telephone Service From the United States	Sp	36
Pennsylvania State Police radiotelephone system	Wi	210
Round the States Telephone Circuit for Bell Centennial	Sp	10
"Mark Twain and the Telephone"—illus.	Su	100
Martin, Frank: Group portrait	Au	163
McBerty, F. R.: Early telephone research	Au	167
McGowan, James R.:		
Biographical sketch—portrait	Au	176
"Telephones in the World of 1947"—8 charts	Au	139
McHugh, Keith S.:		
Biographical sketch—portrait	Au	110
Biographical sketch—portrait	Wi	178
"How Big Are the Little Things In the Telephone Business?"	Au	124
"Keeping Our Sights High"	Wi	191
McQuarrie, J. L.: Early telephone research	Au	167
Michigan Bell Telephone Company: "Preparing Histories of the Telephone Business" by Samuel T. Cushing	Sp	53
Miller, Bartlett T.:		
Biographical sketch—portrait	Wi	178
"The International Telecommunication Conference of 1947"—7 photos, 1 chart	Wi	192
Miller, Theodore G.: Speaks on around the world circuits—portrait	Sp	37, 39
"Mr. Bell and the Bell Laboratories" by Oliver E. Buckley—4 photos, 1 map	Sp	6

	Issue	Page
Mobile Telephone Service:		
"'Arms of the Law'—Police Communications" by Richard B. Holt—8 photos, 1 map	Wi	208
"Keeping Our Automotive Equipment Modern" by T. C. Smith—2 photos	Su	94
Molina, E. C.: Early telephone research	Au	167, 173
Morris, R. W.: Early telephone research	Au	173
Motion Pictures:		
"Helping Customers Improve Telephone Usage Habits"—7 photos, 1 chart	Su	72
"Mr. Bell." Premiere at Bell Telephone Laboratories, March 3, 1947	Sp	6
"Mr. Bell." Still from film	Sp	26
Motor Vehicles: "Keeping Our Automotive Equipment Modern" by Temple C. Smith—14 photos	Su	90

N

"Nation-wide Operator Toll Dialing—the Coming Way" by Ralph I. Mabbs—4 photos, 1 map	Wi	181
"A National Telephone Service" from an address by the late Harry B. Thayer	Wi	241
"The New Bell Telephone"—1 photo	Au	149
New York Telephone Company: "Machine Switching in New York City"	Wi	240
Numbering Plan: "Nation-wide Operator Toll Dialing—the Coming Way" by Ralph I. Mabbs—4 photos, 1 map	Wi	184

O

O'Donnell, J. W.: Group portrait	Au	163
Ogden, Floyd P.: "Two Kinds of Pioneering"	Sp	24
"Opening of New York–Boston Radio Relay System Is Historic Event"—1 map, 2 photos	Wi	204
O & E Department: "Hammond V. Hayes: 1860–1947" by Roger B. Hill and Thomas Shaw	Au	150
Operators:		
"Forest Fire: What an Unchecked Holocaust Wrought in Maine" by Timothy P. Mannix—9 photos	Wi	221
"Nation-wide Operator Toll Dialing—the Coming Way" by Ralph I. Mabbs—4 photos, 1 map	Wi	181
Organization: Development of organization of O. & E. Department	Au	169
Overseas Telephone Service:		
"America Is Calling" by William G. Thompson—9 photos, 2 maps, 2 charts	Sp	35
"The International Telecommunication Conference of 1947" by Bartlett T. Miller—7 photos, 1 chart	Wi	192

	Issue	Page
P		
Page, Arthur W.: Quote from book "The Bell Telephone System" on the evolutionary process of improving telephone plant	Su	99
Patents: Loading coil patent issued to M. I. Pupin	Au	163
"The Pioneers and the First Pioneer"—3 photos	Sp	21
Plant Department:		
"Keeping Our Automotive Equipment Modern" by Temple C. Smith—14 photos	Su	90
Quote from book "The Bell Telephone System" by Arthur W. Page on renewing telephone plant	Su	99
"Plastics—Their Growing Use in Telephone Plant" by John R. Townsend—6 photos	Au	127
Poetry: "The Teacher" by A. M. Sullivan	Sp	3
Policies: "The Responsibility of Management in the Bell System" by Walter S. Gifford	Su	70
"Preparing a History of the Telephone in Connecticut" by Edward M. Foley, Jr.—8 photos	Sp	56
"Preparing Histories of the Telephone Business" by Samuel T. Cushing	Sp	52
Private Branch Exchange: "'Arms of the Law'—Police Communications" by Richard B. Holt—8 photos, 1 map	Wi	208
Public Relations: "How Big Are the Little Things In the Telephone Business?" by Keith S. McHugh	Au	124
Pupin, M. I.: Granted loading coil patent	Au	163
R		
Radio Relay System: "Opening of New York–Boston Radio Relay System Is Historic Event"—1 map, 2 photos	Wi	204
Radio Stations:		
"Experimental Broadcasting Service"	Au	175
"Experimental Broadcasting Station"	Su	105
Radio Telephony:		
"America Is Calling" by William G. Thompson—9 photos, 2 maps, 2 charts	Sp	35
"'Arms of the Law'—Police Communications" by Richard B. Holt—8 photos, 1 map	Wi	208
"The International Telecommunication Conference of 1947" by Bartlett T. Miller—7 photos, 1 chart	Wi	192
"Keeping Our Automotive Equipment Modern" by Temple C. Smith—2 photos	Su	94
Radio—Transoceanic:		
"America Is Calling" by William G. Thompson—9 photos, 2 maps, 2 charts	Sp	35
Excerpt from speech by W. S. Gifford to International Telecommunication Conference, July 12, 1947	Wi	252
"The International Telecommunication Conference of 1947" by Bartlett T. Miller—7 photos, 1 chart	Wi	192

	Issue	Page
Rates—Telephone:		
Comment on rate reductions, A. T. & T. Annual Report, 1905	Au	170
Overseas telephone rates, 1927–1946—chart	Sp	49
Research:		
"Hammond V. Hayes: 1860–1947" by Roger B. Hill and Thomas Shaw, with an introductory note by W. H. Harrison—10 photos, 3 charts	Au	150
"Plastics—Their Growing Use in Telephone Plant" by John R. Townsend	Au	127
"The Responsibility of Management in the Bell System" by Walter S. Gifford	Su	70
Rhodes, F. L.: Early telephone research	Au	173
Richards, W. L.: Early telephone research	Au	173

S

Sargent, W. D.: Demonstrated advantages of paper as cable insulation, 1888	Au	157
Scribner, C. E.: Helped invent common-battery system	Au	160
Shaw, Thomas: Biographical sketch—portrait	Au	111, 176
Shaw, Thomas and Roger B. Hill: "Hammond V. Hayes: 1860–1947" by Roger B. Hill and Thomas Shaw, with an introductory note by W. H. Harrison—10 photos, 3 charts	Au	150
Shreeve, H. E.:		
Early telephone research	Au	173
Invented repeater	Au	165
Simmons, John G.:		
Biographical sketch—portrait	Su	107, 108
"Employees Enjoy more than 70 Out-of-hour Activities" —10 photos	Su	81
"Sleet Storms"	Su	105
Smith, Temple C.:		
Biographical sketch—portrait	Su	108
"Keeping Our Automotive Equipment Modern"—14 photos	Su	90
Southern New England Telephone Company:		
"Preparing a History of the Telephone in Connecticut" by Edward M. Foley, Jr.—8 photos	Sp	56
"Preparing Histories of the Telephone Business" by Samuel T. Cushing	Sp	52
Southwestern Bell Telephone Company: "Preparing Histories of the Telephone Business" by Samuel T. Cushing	Sp	52
Stockholders:		
"The Responsibility of Management in the Bell System" by Walter S. Gifford	Su	70
"The Biggest Offer Ever" by Frederick A. Wiseman—8 photos	Wi	242
Stone, John S.:		
Patented "bi-metallic wire" cable	Au	162
Telephone relay experiments	Au	166

	Issue	Page
Storms:		
New Year's ice storm damage to telephone plant	Wi	251
"Sleet Storms"	Su	105
Sullivan, A. M.: "The Teacher"—Poem	Sp	3

T

"The Teacher" by A. M. Sullivan—Poem	Sp	3
Telegraph: Charts—Telephone conversations and telegrams, Year 1946	Au	145
Telephone Centers: "America Is Calling" by William G. Thompson—9 photos, 2 maps, 2 charts	Sp	35
Telephone Development:		
Chart—Telephone development of large cities, January 1, 1947	Au	146
Chart—Telephone development of the world, by countries, January 1, 1947	Au	142
"Telephones in the World of 1947" by James R. McGowan—8 charts	Au	139
Telephone Hour:		
"A Tribute Paid to Alexander Graham Bell During the Bell Centennial" by Walter S. Gifford, March 3, 1947	Sp	4
"Two Men and a Piece of Wire—*and Faith*"—7 photos	Sp	12
Telephone Pioneers of America:		
Active in social field	Su	83
"The Pioneers and the First Pioneer"—3 photos	Sp	21
"Preparing a History of the Telephone in Connecticut" by Edward M. Foley, Jr.—8 photos	Sp	56
"Preparing Histories of the Telephone Business" by Samuel T. Cushing	Sp	52
Telephone Service:		
Excerpt from speech by Walter S. Gifford to International Telecommunication Conference, July 12, 1947	Wi	252
"How Big Are the Little Things in the Telephone Business?" by Keith S. McHugh	Au	124
"Keeping Our Sights High" by Keith S. McHugh	Wi	191
"A National Telephone Service" from an address by the late Harry B. Thayer	Wi	241
Telephones:		
Chart—Telephone conversations and telegrams, Year 1946	Au	145
Chart—Telephones per 100 population, January 1, 1947	Au	144
Chart—The World's telephones by continental areas, January 1, 1947	Au	141
"Plastics—Their Growing Use in Telephone Plant" by John R. Townsend—6 photos	Au	127
Telephones—Foreign Countries:		
Chart—Distribution of the world's telephones, January 1, 1947	Au	141
Chart—Ownership of the world's telephones, January 1, 1947	Au	140

	Issue	Page
Chart—Telephone development of large cities, January 1, 1947	Au	146
Chart—Telephone development of the world, by countries, January 1, 1947	Au	142
Chart—Telephones per 100 population, January 1, 1947	Au	144
Chart—The World's telephones by continental areas, January 1, 1947	Au	141
Telephones—History see also **Bell, A. G.:**		
"America Is Calling" by William G. Thompson—9 photos, 2 maps, 2 charts	Sp	35
"The Bell Centennial in the Press"—2 photos	Sp	25
"Crossed Wireless"	Su	104
"The First Twenty-Five Years"—6 photos	Sp	30
"Hammond V. Hayes: 1860–1947" by Roger B. Hill and Thomas Shaw, with an introductory note by W. H. Harrison—10 photos, 3 charts	Au	150
"Mark Twain and the Telephone"—illus.	Su	100
"Mr. Bell and the Bell Laboratories" by Oliver E. Buckley —4 photos, 1 map	Sp	6
"The New Bell Telephone"—1 photo	Au	149
"Opening of New York–Boston Radio Relay System is Historic Event"—1 map, 2 photos	Wi	204
"The Pioneers and the First Pioneer"—3 photos	Sp	21
"Preparing a History of the Telephone in Connecticut" by Edward M. Foley, Jr.—8 photos	Sp	56
"Preparing Histories of the Telephone Business" by Samuel T. Cushing	Sp	52
Quote by Sir William Thomson (Lord Kelvin) on Bell's Telephones at Centennial, 1876	Au	139
"Telephones in the World of 1947" by James R. McGowan—8 charts	Au	139
"Twenty-five Years Ago in the Bell Telephone Quarterly, July 1922"	Su	105
"Twenty-five Years Ago in the Bell Telephone Quarterly, Oct. 1922"	Au	174
"Twenty-five Years Ago in the Bell Telephone Quarterly, Jan. 1923"	Wi	240
"Two Men and a Piece of Wire—*and Faith*"—7 photos	Sp	12
Telephones—Statistics:		
Chart—The World's telephones by continental areas, January 1, 1947	Au	141
"Telephones in the World of 1947" by James R. McGowan —8 charts	Au	139
"World's Telephone Statistics, 1921"	Au	175
"Telephones in the World of 1947" by James R. McGowan —8 charts	Au	139
Teletypewriters:		
"America Is Calling" by William G. Thompson—9 photos, 2 maps, 2 charts	Sp	35

	Issue	Page
"'Arms of the Law'—Police Communications" by Richard B. Holt—8 photos, 1 map	Wi	208
"Weather Charts by Wire for the Air Force" by Harry Jeavons—6 photos, 3 maps, 1 chart	Wi	228
Thayer, Harry B.:		
"The First Twenty-Five Years"—5 photos, portrait	Sp	30
"A National Telephone Service" excerpt from an address	Wi	241
Thompson, G. K.:		
Early telephone research	Au	173
Group portrait	Au	163
Thompson, William G.:		
"America Is Calling"—9 photos, 2 maps, 2 charts	Sp	35
Attended International Telecommunication Conference	Wi	203
Biographical sketch—portrait	Sp	67, 68
Thomson, Sir William (Lord Kelvin): Quote on Bell's telephones at Centennial, 1876	Au	139
Toll Dialing: "Nation-wide Operator Toll Dialing—the Coming Way" by Ralph I. Mabbs—4 photos, 1 map	Wi	181
Toomey, J. F.: Early telephone research	Au	173
Townsend, John R.:		
Biographical sketch—portrait	Au	110
"Plastics—Their Growing Use in Telephone Plant"—6 photos	Au	127
Treasury Department: "The Biggest Offer Ever" by Frederick A. Wiseman—8 photos	Wi	242
"A Tribute Paid to Alexander Graham Bell During the Bell Centennial" by Walter S. Gifford—2 portraits	Sp	4
Truman, Harry S.: Letter from President Truman to Mrs. Grosvenor on Bell Centennial—1 photo	Sp	2
Twain, Mark: "Mark Twain and the Telephone"—illus.	Su	100
"Twenty-five Years Ago in the Bell Telephone Quarterly, July 1922"	Su	105
"Twenty-five Years Ago in the Bell Telephone Quarterly, Oct. 1922"	Au	174
"Twenty-five Years Ago in the Bell Telephone Quarterly, Jan. 1923"	Wi	240
"Two Men and a Piece of Wire—*and Faith*"—7 photos	Sp	12
Tyler, Morris F.: Chapter of telephone pioneers	Sp	57

U

United States Independent Telephone Association: "Keeping Our Sights High" by Keith S. McHugh	Wi	191

V

Vacuum Tubes: "Plastics—Their Growing Use in Telephone Plant" by John R. Townsend—photo	Au	130
Verity, R. C.: "Teacher and Humanitarian"	Sp	23

	Issue	Page
von Auw, Alvin:		
Biographical sketch—portrait	Au	110
"Distribution by Western Electric Company"—7 photos	Au	113

W

Waterson, K. W.: Early telephone research	Au	169, 173
Warren, H. S.:		
Loading coil experiments	Au	164
Early telephone research	Au	173
Watson, Thomas A.:		
"Crossed Wireless"	Su	104
"Two Men and a Piece of Wire—*and Faith*"—7 photos	Sp	12
"Weather Charts by Wire For the Air Force" by Harry Jeavons —6 photos, 3 maps, 1 chart	Wi	228
Western Electric Company:		
"Distribution by Western Electric Company" by Alvin von Auw—7 photos	Au	113
New Year's ice storm damages telephone plant	Wi	251
"Plastics—Their Growing Use in Telephone Plant" by John R. Townsend—6 photos	Au	127
Whittemore, Laurens E.: Attended International Telecommunication Conference	Wi	197
Wilkins, J. B.: Group portrait	Au	163
Wire:		
"Hammond V. Hayes: 1860–1947" by Roger B. Hill and Thomas Shaw, with an introductory note by W. H. Harrison—10 photos, 3 charts	Au	150
"Plastics—Their Growing Use in Telephone Plant" by John R. Townsend—6 photos	Au	127
Wiseman, Frederick A.:		
"The Biggest Offer Ever"—8 photos	Wi	242
Biographical sketch—portrait	Wi	179
World War II: "America Is Calling" by William G. Thompson —9 photos, 2 maps, 2 charts	Sp	35
"World's Telephone Statistics, 1921"	Au	175